In the Claims:

Please amend the claims as indicated.

 (Currently amended) An apparatus for selecting storage media scaling to improve data access performance, the apparatus comprising:

a reception module configured to receive a dataset <u>from an application that</u> does not support scaling for storage on a <u>magnetic</u> tape storage medium;

an identification module configured to identify storage characteristics of the dataset; and

a scaling module configured to select a storage instruction in response to storage criteria applied to the storage characteristics, wherein the storage instruction comprises an instruction to scale the magnetic tape storage medium to a predefined capacity for optimal data access performance.

(Canceled)

- (Currently amended) The apparatus of claim 1, wherein the storage instruction comprises an instruction to not scale the <u>magnetic tape</u> storage medium.
- 4. (Original) The apparatus of claim 1, further comprising a determination module configured to store a plurality of predefined storage criteria and compare the storage characteristics of the received dataset with the predefined storage criteria to determine the storage instruction.

- (Currently amended) The apparatus of claim I, further comprising a mapping module
 configured to track capacity information for the <u>magnetic tape</u> storage
 medium that stores the dataset.
- (Original) The apparatus of claim 1, wherein the scaling module is configured to communicate the selected instruction to a storage medium controller.
- (Currently amended) A system for scaling a storage medium to improve data access performance, the system comprising:
 - a network configured to communicate data;
 - a storage controller coupled to the network;
 - a <u>magnetic tape</u> storage device having a <u>magnetic tape</u> storage medium configured to store data received from the controller over the network;
 - a host coupled to the network, the host configured to exchange data with the controller:

an application operating within the host, the application configured to produce a dataset to be stored <u>without scaling</u> on the <u>magnetic tape</u> storage medium; and

a scaling module configured to communicate with the application and select a storage instruction in response to storage criteria applied to storage characteristics of the dataset, wherein the storage instruction comprises an instruction to scale the magnetic tape storage medium to a predefined capacity for optimal data access performance.

(Canceled)

- (Currently amended) The system of claim 7, wherein the storage instruction comprises an instruction to not scale the <u>magnetic tape</u> storage medium.
- 10. (Original) The system of claim 7, wherein the scaling module is configured to store a plurality of predefined storage criteria and compare the storage characteristics of the dataset with the predefined storage criteria to determine the storage instruction.
- (Original) The system of claim 7, wherein the storage controller is configured to receive the storage instruction and execute the storage instruction.
- (Original) The system of claim 7, wherein the scaling module operates within the host.
- (Original) The system of claim 7, wherein the scaling module operates within the storage controller.
- (Currently amended) The system of claim 7, wherein the scaling module operates within the <u>magnetic tape</u> storage device.

15. (Currently amended) A computer readable storage medium comprising computer readable code configured to carry out a method for selecting storage medium scaling to improve data access performance, the method comprising: receiving a dataset to be stored on a <u>magnetic tape</u> storage medium <u>from</u> an application that does not support scaling;

identifying storage characteristics of the dataset;
determining based on storage criteria and the storage characteristics
whether to scale the <u>magnetic tape</u> storage medium that will store the dataset; and
selecting instructions to scale the <u>magnetic tape</u> storage medium <u>to a</u>
<u>predefined capacity for optimal data access performance</u> according to the

- (Currently amended) The computer readable storage medium of claim 15, wherein
 the method further comprises defining a plurality of storage characteristics as
 storage characteristics that require storage on optimally scaled <u>magnetic tape</u>
 storage medium.
- 17. (Original) The computer readable storage medium of claim 15, wherein the method further comprises defining a plurality of storage characteristics as storage characteristics that require storage on maximum capacity <u>magnetic tape</u> storage medium.

- 18. (Currently amended) The computer readable storage medium of claim 15, wherein determining further comprises identifying storage characteristics that satisfy storage criteria for storing the dataset on optimally scaled <u>magnetic tape</u> storage medium.
- 19. (Currently amended) The computer readable storage medium of claim 15, wherein determining further comprises identifying storage characteristics that satisfy storage criteria for storing the dataset on maximum capacity <u>magnetic tape</u> storage medium.
- (Currently amended) The computer readable storage medium of claim 15, wherein
 the method further comprises tracking capacity information for the <u>magnetic</u>
 tape storage medium that stores the dataset.